SD card real time recorder %RH, Wet bulb, Dew point, Temp., type K/J Temp

PRECISION HYGROMETER

Model: HT-3027SD *ISO-9001, CE, IEC1010*











The Art of Measurement

SD card real time data recorder %RH, Welt bulb, Dew point, Type K/J Temp.

PRECISION HYGROMETER

Model: HT-3027SD

FEATURES * Humidity/Temp., Dew point (Humidity), Wet bulb (

Humidity), Type K/J thermometer, 4 kinds			
measurement are combined into one meter, intelligent			
and professional.			
* Type K, Type J thermocouple thermometer.			
* Fast humidity measuring response time.			
* Real time SD memory card Datalogger, it Built-in Clock			
and Calendar, real time data recorder, sampling time set			
from 1 second to 3600 seconds.			
* Manual datalogger is available (set the sampling time to 0),			
during execute the manual datalogger function, it can set the			
different position (location) No. (position 1 to position 99)			
* Innovation and easy operation, computer is not need to			
setup extra software, after execute datalogger, just take			
away the SD card from the meter and plug in the SD card			
into the computer, it can down load the all the measured			
value with the time information (year/month/date/			
hour/minute/second) to the Excel directly, thenuser can			
make the further data or graphic analysis by themselves.			
* SD card capacity : 1 GB to 16 GB.			
* LCD with green light backlight, easy reading.			

*	RS232/U	SB PC CON	/IPUTER	interface.	
*	Separate	probe, ea	sy for o	peration of	different

Can default auto power off or manual power off.
Data hold, record max. and min. reading.
Microcomputer circuit, high accuracy.

Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.

measurement environment.

GENERAL SPECIFICATIONS			
Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size: 52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Measurement	Humidity/Temp. : %RH/°C or °F.		
Unit	Dew poir	nt(Humidity): ℃ or ℉.	
	Wet bulb (Humidity) : °C or °F.		
	Type K/J thermometer : °C or °F.		
Datalogger	Auto	1 second to 3600 seconds	
Sampling Time		@ Sampling time can set to 1 second,	
Setting range		but memory data may loss.	
	Manual	Push the data logger button	
		once will save data one time.	
		@ Set the sampling time to	
		0 second.	
		@ Manual mode, can also select the	
		1 to 99 position (Location) no.	
Memory Card		ory card. 1 G to 16 G.	
Advanced	* Set clo	ock time (Year/Month/Date,	
setting		Minute/ Second)	
	* Set sa	mpling time	
	* Auto p	ower OFF management	
	* Set beep Sound ON/OFF		
	* Decimal point of SD card setting		
	* SD memory card Format		
	* Set temperature unit to °C or °F		
	* Set thermometer type to Type K or Type J		
Temperature	Automatic temp. compensation for the humidity		
Compensation	function	and the type K/J thermometer.	
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		
of Display			
Data Output		JSB PC computer interface.	
	* Connect the optional RS232 cable		
	UPCB-02 will get the RS232 plug.		
	* Connect the optional USB cable		
	USB-01 will get the USB plug.		
Operating	0 to 50 ℃.		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
Power Supply	* Alkaline or heavy duty DC 1.5 V battery		
	(UM3, AA) x 6 PCs, or equivalent.		
	* DC 9V adapter input. (AC/DC power		
	adapter is optional).		
* Annogrange and englifications listed in this breekure are subject			

Power Current	Normal operation (w/o SD card save	
Tower current	data and LCD Backlight is OFF) :	
	Approx. DC 3.5 mA.	
	1	
	When SD card save the data but and	
	LCD Backlight is OFF) :	
	Approx. DC 28 mA.	
	Reemark:	
	* If LCD backlight on, the power	
	consumption will increase approx. 12 mA.	
Weight 489 g/1.08 LB.		
Dimension	177 x 68 x 45 mm	
	(7.0 x 2.7x 1.9 inch)	
Standard	* Instruction manual 1 PC	
Accessories	* Humidity/Temp. probe1 PC	
Included	* Soft carrying case (CA-05A) 1 PC	
Optional	SD Card (2 GB)	
Accessories	Type K thermocouple probe.	
	AC to DC 9V adapter.	
	USB cable, USB-01.	
	RS232 cable, UPCB-02.	
	Data Acquisition software, SW-U801-WIN.	
	Hard carrying case, CA-06	

ELECTRICAL SPECIFICATIONS (23±5 ℃)

Humidity/ Temperature

	Range	5 % to 95 % R.H.	
Humidity	Resolution	0.1 % R.H.	
	Accuracy	≥70% RH:	
		± (3% reading + 1% RH).	
		< 70% RH :	
		± 3% RH.	
	Range	0 °C to 50 °C,32 °F to 122 °F.	
Temperature	Resolution	0.1 degree	
	Accuracy	°C ± 0.8 °C.	
		°F ± 1.5 °F.	

Dew Point (Humidity)

$^{\circ}\mathbb{C}$	Range -25.3 °C to 48.9 °C	
	Resolution	0.1 ℃
°F	°F Range -13.5 °F to 120.1 °F.	
	Resolution	0.1 °F.

Remark :

- * Dew Point display value is calculated from the Humidity/Temp. measurement automatically.
- * The Dew Point accuracy is sum accuracy value of Humidity & Temperature measurement..

Wet bulb (Humidity)

	$^{\circ}\mathbb{C}$	Range	ge -21.6 ℃ to 50.0 ℃	
١		Resolution	0.1 ℃	
ĺ	°F	Range	-6.9 °F to 122.0 °F.	
١		Resolution	0.1 °F.	

Remark :

- * Wet bulb display value is calculated from the Humidity/Temp. measurement automatically.
- * The Welt bulb accuracy is sum accuracy value of Humidity & Temperature measurement..

Type K/J thermometer

Sensor	Resolution	Range	Accuracy
Type			
Type K	0.1 ℃	-50.0 to 1300.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2372.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)
Type J	0.1 ℃	-50.0 to 1200.0 ℃	± (0.4 % + 0.5 °C)
		-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
	0.1 °F	-58.0 to 2192.0 °F	± (0.4 % + 1 °F)
		-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)

[@]Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz. chonly. 1303-HT3027SD

^{*} Appearance and specifications listed in this brochure are subject to chonly.